82004 S/120/60/000/03/045/055 E032/E514

Two Forms of a Titanium Ion-Sorption Pump

pressure 10<sup>2</sup> mm Hg, pumping speed for air(at 10<sup>-6</sup> mm Hg) 30 \$\climits/sec\$ and pumping speed for helium(at 10<sup>-6</sup> mm Hg) 0.5 \$\climits/sec\$. The limiting pressure measured by the LM-22manometer was found to be 5 x 10<sup>-6</sup> mm Hg in a sealed-off pump. The warm-up time was less than 30 min and the anode voltage was switched on at a pressure of less than 10<sup>-6</sup> mm Hg. It is desirable to use a backing pump incorporating a nitrogen trap. A photograph of the pump is shown in Fig 2. Fig 3 shows the basic arrangement of another pump of this type which has a larger store of titanium. The titanium cylinder A (10 mm dia., 28 mm long) is fixed on a molybdenum rod and is heated by the electrons emitted by the cathodes K. The screen E prevents the molybdenum holder from becoming too hot. The working characteristics of this pump are as follows: power consumed by the cathodes 300 W, anode voltage 1600 V, anode current 130 mA, consumption of titanium 1 mg/min, starting

Card 2/3 pressure 10 mm Hg, pumping speed for air(at 2x10 mm Hg)

82001

S/120/60/000/03/045/055 E032/E514

Two Forms of a Titanium Ion-Sorption Pump

150  $\ell$ /sec. An active film of titanium will maintain a pressure of  $10^{-5}$  to  $10^{-3}$  mm Hg in a system when the titanium pump is switched off. Acknowledgment is made to G. A. Mishkin for valuable advice. There are 3 figures and 2 tables.

(Note: This is a slightly abridged translation)

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physico-Technical Institute, Ac.Sc., UkrSSR)

SUBMITTED: April 29, 1959

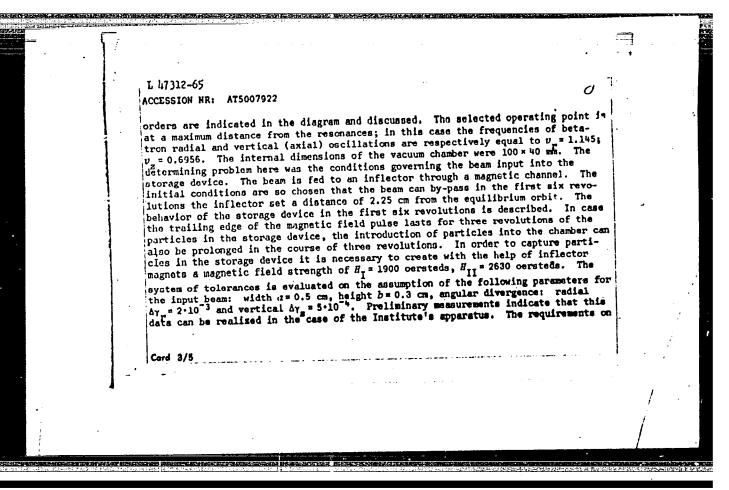
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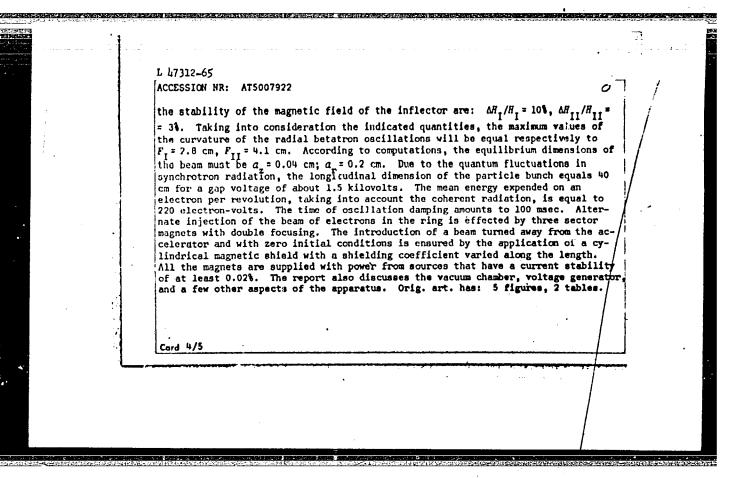
Card 3/3

## L 47312-65 ACCESSION NR: AT5007922

many problems can be solved. The most convenient storage design is a system of race-tracks with a common linear section in which the collision of the two beams is effected. A distinctive property of the Institute's storage device is the great lengths of the linear sections, equal to 50 and 80 cm for a radius of revolution of 50 cm. The great length of one pair of linear sections in each of the rings was selected in order to provide for measurement of the minimum angle of scattering. Selection of a small radius of revolution was due to the requirement of minimum equilibrium dimensions of the beam and to the tendency to have a not too long time for damping of the beam oscillations. To localize the region of interaction, the beam orbits are distorted in the vertical plane by means of two "intersecting" magnets that create a homogeneous field in the radial direction. The magnets are arranged in the common libear section. The length of each of the "intersecting" magnets equals 10 cm, and the magnetic field strength is up to 640 cersteds. The magnets deflect the equilibrium orbit by 1 cm from the median plane. The quadrants have a constant magnetic field index of n = 0.425. The coupled magnets in the section that is common for both orbits have zero gradient; the index in the remaining sections is  $n_1 = 0.450$ . The stability of the Institute's system is characterised by a diagram showing field index n in the quadrants versus the field index n1 in the coupled magnets. The regions of stability and resonance lines of various

Card 2/5





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TEREKHUV, J. G.

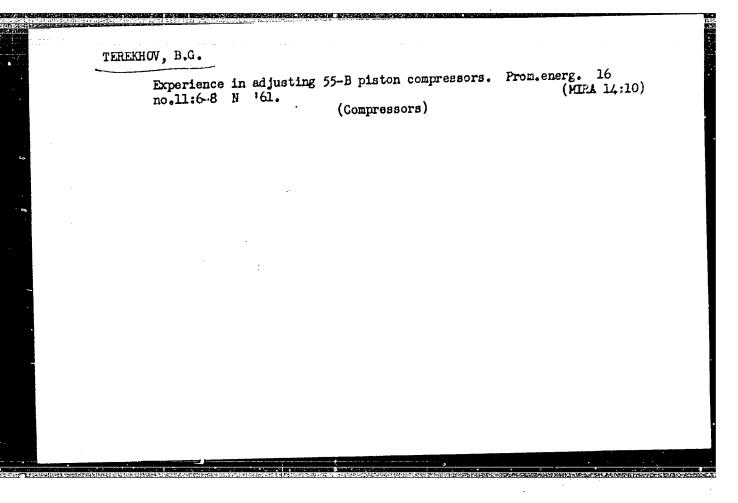
USSA/Entineering Harmers, Steam Fuel Conservation Sep lyw.

"Efficient Operation of Steam Manuers, " I. Ya. Varshavskiy, B. G. Terekhov, 31 pp

"Za Ekonomiyu Topliva" Vol IV, No 9

Hammers using either steam or co pressed air are the main users of fuel in the general fuel balance of industries, at times using up as much as 50 percent of the fuel in this energy balance. Therefore methods for economy of energy by these hammers would result in an economy of energy by these hammers would result in an economy of fuel for the whole industry. The author states various methods of cutting down the energy used by these hammers. Mives a performance graph and several tables of operating data.

PA-23T23



S/169/62/000/010/011/071 D228/D307

AUTHORS:

Gnilko, M.K. and Terekhov, B.I.

TITLE:

Using magnetic properties to ascertain the age of

intrusive rocks in East Sayan

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1962, 13, abstract 10483 (Byul. nauchno-tekhn. inform. H-vogeol. i okhrany nedr SSSR, no. 1 (29), 1961, 59-62)

The magnetic properties of rocks in East Sayan are being studied for age correlation purposes. A table of the magnetic characteristics of rocks is given. The susceptibility  $\chi$  and the remanent magnetization  $I_2$  was determined by A.A. Logachev's method on M-2 (M-2) and Askania-Werke instruments. It was found that:

1) the magnitudes of  $\chi$ ,  $I_r$ , and  $I_r/I_i$  are constant for a given type of rocks of a certain age; 2) within coeval intrusions the values of  $\chi$  and  $I_r$  increases from acid to basic rocks if the value of  $I_r/I_i$  for different rock types is constant; 3) the values of  $\chi$ ,

Card 1/2

Using magnetic properties ...

S/169/62/000/010/011/071 U228/U307

 $I_r$  and  $I_r/I_i$  increase with increasing age of each rock type, and the degree of their increase differs within the same type; and 4) the ratio  $I_l/I_i$  for the Lover Paleozoic intrusions of East Sayan studied by the authors coincides with that in A.G. Komarov's data for intrusions of the same age in Pripolyarnyy Ural.  $\angle$  Abstracter's note: Complete translation  $\angle$ 

Card 2/2

5/169/62/000/005/032/033 D228/D307

AUTHOR:

Terekhov, B. I.

TITLE:

Trial quantitative interpretation of magnetometer data

in the case of a magnetic deposit

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 33, abstract 5A256 (Byul. nauchno-tekhn. inform. M-vo geol.

i okhrany nedr SSSR, no. 1 (29), 1961, 62-66)

TEXT: The analysis of magnetic anomalies showed that known orebodies cannot explain the magnetic field. The presence at a certain depth of large magnetite deposits, which were exposed later by drilling, was predicted as a result of careful quantitative interpretation. It is pointed out that in the interpretation it is necessary to take into account the possibly more accurate geologic structure of the zones, close to the day surface, and to provide a certain amount of drilling for this purpose. This will permit the more precise definition of the parameters of the orebodies of the -lower horizons and the decreased expenditure for their exploration. /~Abstracter's note: Complete translation.\_/

Card 1/1

TEREKHOV, B.M., inchemer.

A highly efficient enemples is meeded. Avt.der.18 me.6:11 0 '55.
(Snewpless)

(MLRA 9:2)

ZAKHAROV, V.I.; SIMONOVA, V.F.; MARITS, N.M.; ABRAMOVA, L.A.; TEREKHOV, B.M.; PIMOHOVA, G.V.

Natural focus and epidemiology of human parasitic diseases in the Moldavian S.S.R. Zdravookhranenie 2 no.5:28-31 S-0 159.

(MIRA 13:4)

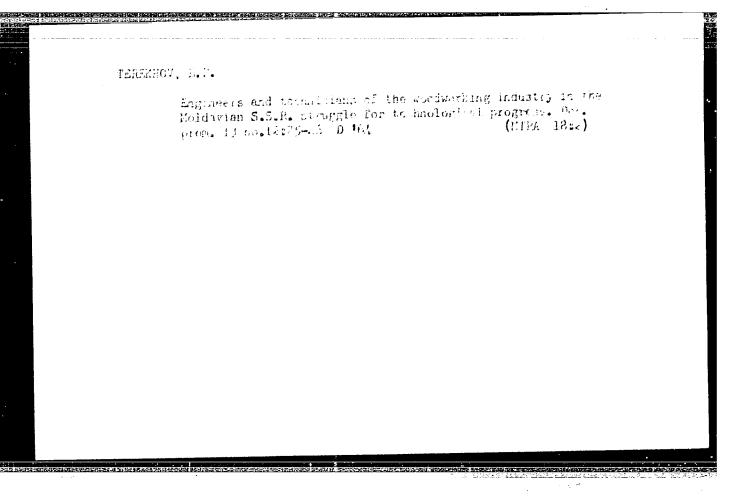
1. Iz kafedry obshchey biologii i parazitologii (zaveduyushchiy - prof. V.I. Zakharov) Kishinevskogo meditsinskogo instituta.

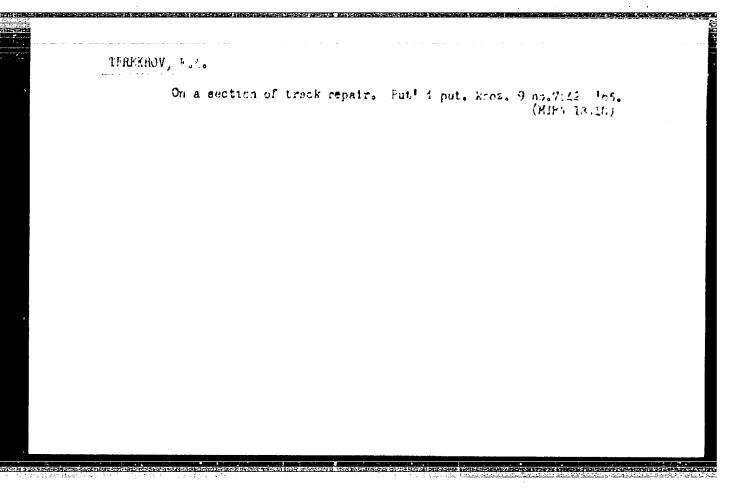
(MOLDAVIA - - PARASITOLOGY)

### TEREKHOV, B.P.

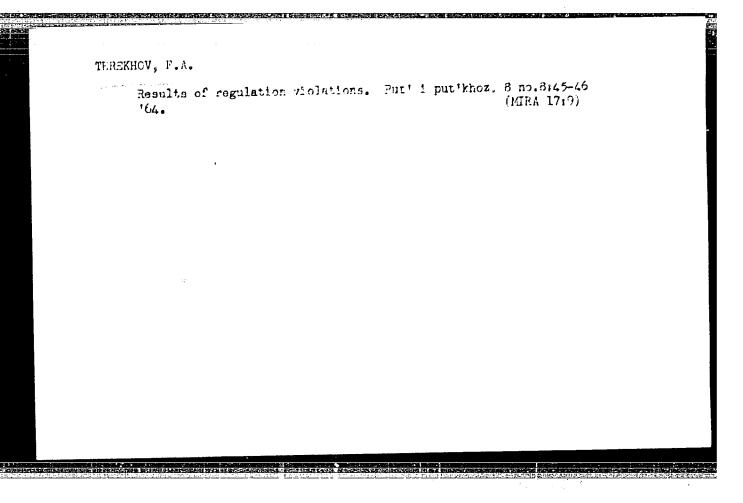
Semiautomatic line for lacquering bent chairs in a high voltage electric field. Der.prom. 11 no.6:17-18 Je '62. (MIRA 15:6) (Kishenev - Furniture industry - Equipment and supplies) (Sprey painting, Electrostatic)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755320010-7"





Strict planning is t 8 no.6:35-37 '64.	he basis of successf	al work. Put' (MIR	1 pat knoz. A 1719)
1. Stantsiya Rossosh	i, Yugo-Vootechnoy d	orogi	



TEREKHOV, G.H.

Increasing Labor Productivity in Machine Building (Voprosy povysheniya proivoditel'nosti truda v mashinostroenii) Gosudarstvennoye nauch-tekh. izdat. mashinostroitel'. literatury, Moscow, 1957. 511 pp. (Table of Contents authors below)

This collection presents a comparative tech. and economic analysis of most effective methods and industrial processes for obtaining high labor productivity in machine building. Output may be stepped up by further standardization of machine tools, materials, and production methods; drawing on unused potentials. Covers all stages of planning and production as performed in modern plants of USSR, actual experience, and new methods are discussed.

TEREKHOV, G. A., "Use of Small-Scale Automation in Metal Processing," p. 168.

ΓεκεΚΗΟυ, 6-A.
25(5)

PHASE I BOOK EXPLOITATION

SOV/2394

- Moscow. Dom nauchno-teknnicheskoy propagandy imeni F.E. Dzerzhinskogo
- Kompleksnaya avtomatizatsiya i mekhanizatsiya v mashinostroyenii; sbornik statey (Overall Automatization and Mechanization in Machine Manufacturing; Collection of Articles) Moscow, Mashgiz, 1959. 312 p. 8,000 copies printed.
- Additional Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.
- Ed.: A.N. Malov, Candidate of Technical Sciences; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Metalworking and Toolmaking (Mashgiz): R.D. Beyzel'man, Engineer.
- PURPOSE: This collection of articles is intended for engineering and technical personnel of plants manufacturing machines and instruments.

COVERAGE: This book acquaints industrial workers with devices . Card 1/5

Overall Automatization (Cont.)

SOV/2394

and equipment necessary for the overall mechanization and automatization of technological processes in machine manufacturing. Individual articles deal with general problems of automatization and mechanization of processes in preparatory, machine, and assembly shops, and with problems arising from the introduction of transfer lines. The book also includes examples of devices and equipment tested and used under actual plant conditions. The source of these data was the meeting on overall mechanization and automatization of technological processes held in 1957 by the Moskovskiy Dom nauchno-tekhnich-eskoy propagandy imeni F.E. Dzerzhinskogo (Moscow House for Scientific and Technical Propaganda imeni F.E. Dzerzhinskiy). No personalities are mentioned. Several of the articles are followed by references.

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Terekhov, G.A. /Docent/. Basic Trends in the Automatization and Mechanization of Technological Processes in Machine Menufacturing 5 Card 2/5

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AND PRESENTATION AND PROPERTY.

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Overall Automatization (Cont.)

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## PHASE I BOOK EXPLOITATION SOV/4525

- Terekhov, Georgiy Aleksandrovich, Docent, and Yuliy Avraamovich Shuvalov, Candidate of Technical Sciences
- Avtomatizatsiya tekhnologicheskikh protsessov mekhanicheskoy obrabotki i sborki v mashinostroyenii (Automation of Mechanical Working and Assembly Processes in Machine Building) Moscow, Mashgiz; 1960. 320 p. Errata slip inserted. 20,000 copies printed.
- Reviewer: A.V. Ettel', Engineer; Ed.: P.A. Kunin, Engineer; Managing Ed. for Literature on Metal Working and Machine-Tool Making (Mashgiz): V.I. Mitin, Engineer; Tech. Ed.: T.F. Sokolova.
- PURPOSE: This book is intended as a textbook for students in machine-building tekhnikums.
- COVERAGE: Basic information is given on the automation of machining of blanks and the assembling of machine parts. The authors present the fundamentals of feeding of automatic machines, clamping of blanks, and dimensional control of blanks and finished parts. Problems of designing mechanized systems with

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Automation of Mechanical Working (Cont.)

SOV/4525

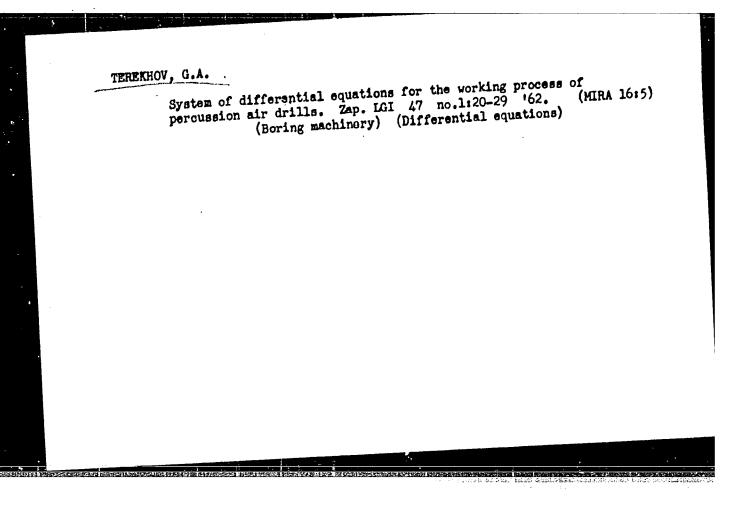
copying and other types of automatic program control are discussed briefly inasmuch as they are treated in the course "Metal-Cutting Machine-Tools". Information on plenning the processing of parts on the transfer machines and hoisting, conveying and reloading devices is also discussed. The contributions to automation made by I.N. Voznesenskiy, Corresponding Member of the Academy of Sciences USSR, and A.A. Andronov, Academician, are mentioned. There are 40 references, all Soviet.

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DEMENT YEV, V.I, kand. tekhn. nauk; OGRINCHUK, A.N., kand. tekhn. nauk; TEREKHOV, G.A., dots.; SHLYAFNIKOV, A.I., dots.; SHUVALOV, Yu.A., kand. tekhn. nauk; KAMENIR, Ya.A., kand. tekhn. nauk, retsenzent; PANTELEYEV, V.V., inzh., retsenzent; BAZHENOV, D.V., red. izd-va; UVAROVA, A.F., tekhn. red.

[Means for the automation of machining processes; manual] Sredstva avtomatizatsii mekhanicheskoi obrabotki; spravochnoe posobie. Moskva, Mashgiz, 1962. 520 p. (MIRA 15:3) (Metalcutting) (Automation)



TEREKHOV, G.A.; SHKOL'NIKOV, A.D.

Electric modeling of periods of the working cycle of a percussion
(MIRA 16:5)
air drill. Zap. IGI 47 no.1:30-36 '62.
(Boring machinery—Blectromechanical analogies)

TEREKHOV, G.A., inzh.; SHKOL'NIKOV, A.D., assistent

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Electronic simulation of the working cycle of an air drill. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4:68-78 \*63. (MIRA 16:7)

l. Leningradskiy ordena Lenina i ordena Trudovogo krasnogo Znameni gornyy institut imeni G.V. Plekhanova. Rekomendovana kafedroy gornoelektromekhanicheskogo tsikla. (Boring machinery-Models)

33881

S/640/61/000/000/002/035 D258/D302

21.2100

AUTHORS: Ivanov, O. S. and Terekhov, G. I.

TITLE: The equilibrium diagram and structure of alloys in the

system uranium-niobium

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Stroyeniye

splavov nekotorykh sistem s uranom i toriyem. Moscow,

Gosatomizdat, 1961, 20-34

TEXT: The system uranium-niobium was studied in view of its potential use as a high-melting nuclear fuel. Niobium was found to be a promising component because of its low thermal neutron cross-section, its crystalline structure, isomorphous with that of -U, and its high melting point. The present work is thought to clarify the nature of the equilibrium between & B and phases in the uranium corner of the diagram. Specifically, 65 alloys were prepared by melting together 99.69% pure U and 98.2% pure Nb powder in either an induction or an arc furnace, under reduced pressures of

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33881 \$/640/61/000/000/002/035 D258/D302

The equilibrium diagram ...

purified argon or at 10<sup>-2</sup> mmHg. The specimens were annealed for 48 - 72 hours at 1000 - 1250°C, depending on their Nb contents. They were investigated by Chilling them at different temperatures and analyzing afterwards by X-rays, microstructural, thermal, and dilatometric methods. A resulting equilibrium diagram is given. The hardness curve of samples quenched from 1000°C shows a maximum of 400 kg/mm² at 5 at.-% of Nb, corresponding to the martensitic transformation, \$\to\$-\docs\$; a minimum at 17.5 at.-% of Nb is followed by a smooth maximum, the latter indicating a continuous series of solid solutions. The X-ray pattern of a 17 at.-% containing alloy (quenched from 900°C) shows a body-centered, tetragonal lattice, with the calculated dimensions of a = 3.531 kX and c = 3.360 kX. These parameters decrease with increasing Nb contents of the allcy. Prolonged annealing at 840°C, of samples containing 30 - 65 at.-% of Nb caused the solid solution to be partially decomposed in two phases: \$\text{ and } \times\_N \times\_0\$. This two-phase region reaches its maximum at 990°C and ~50 at.-% of Nb, as ascertained by x-ray data and micro-Card 2/4

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33881 S/640/61/000/000/002/035 D258/D302

The equilibrium diagram ...

graphy of samples quenched from 910°, 850°, 1000° and 1070°C. The equilibrium, y-solid solution: \$\beta\$-solid solution in the uranium-rich section was established with the aid of micrography. Dilatometric and thermal analyses failed to establish (1) the solubility of Nb and thermal analyses failed to establish (1) the solubility of Nb in \( \alpha \)-U and (2) nature of the invariant equilibrium between the \( \alpha \), and phases. The latter was accomplished by first homogenizing alloys containing 0.01 to 11 at.-% of Nb, dividing each sample in alloys containing 0.01 to 11 at.-% of Nb, dividing each sample in 3 lots heating each lot for 600 hrs at 630°, 637° and 645°C, respectively, and finally quenching the samples in water. The resulting hardness curve does not indicate sharply defined boundaries. X-ray patterns reveal gradually developing \( \begin{array}{c} \begin{array}

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The equilibrium diagram ...

were established by indirect methods. The differences between the equilibrium diagrams of the systems U-Mo and U-Nb are explained in terms of their respective thermodynamic potential curves. There are 10 figures, 2 tables and 1 Soviet-bloc reference.

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Card 4/4

33892

S/640/61/000/000/013/035 D205/D302

21.2100

AUTHORS:

Ivanov, O. S. and Terekhov, G. I.

TITLE:

Polythermic sections of the phase diagram unranium-ni-

obium-molybdenum

SOURCE:

Akademiya nauk SSSR. Institut metallurgii. Stroyenie splavov nekotorykh sistem s uranom i toriyem. Moscow,

Gosatomizdat, 1961, 199-213

TEXT: The aim of the investigation was to construct phase diagrams of the binary U-Nb system and the ternary U-Nb-Mo system in order to obtain data for the technological production of alloys suitable for reactor service. Special attention was given to the 7-solid solutions. On the basis of previous data, it is assumed that Nb and Mo form a continuous series of solid solutions. The alloys were prepated by smelting in an arc or in high-frequency furnaces, using U - 99.78%, Nb - 99.2% and Mo - 99.9% pure. Thermal treatment under vacuum was used followed by immediate quenching in water. Alloys homogenized at 1100 - 1250°C for 48 - 72 hours were etched for the Card (1/3)

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Polythermic sections of ...

investigation of the microstructure and hardness. Phase X-ray analysis was also performed. Polythermic sections with atomic ratios Nb: Mo = 3:1, 1:1, 1:3 were studied and are represented graphically. Conclusions: In the system U-Nb-Mo the two-phase region of two solid solutions based on Y-U and Y-Mo (Nb) - which reaches the solidus line in the system U-Mo - is removed from the solidus surface between the two sections with Nb: Mo ratios 3:1 and 1:1. Thereafter, the bell-shaped surface under which the two-phase region is placed approaches the binary U-Nb system, forming on it a curve of mutual solubility with a maximum at 1000°C and 50 % at. Nb. The surface of limiting simultaneous solubility of Mo and Nb is strongly bent towards the U corner of the diagram, the solubility of these elements in Y-U decreasing sharply moving to the sections Nb: Mo = 1:1 and 1:3. This limits the possibility of obtaining more heat-resisting alloys than the binary U-Mo and U-Nb. Heat-resisting alloys rich in Nb and poor in Mo or vice-versa are the only ones possible. The position of the 3-phase equilibrium Y-R B + YNb is explained. There are 11 figures and 7 references: 6 Sc-

Card 2/3

33892 S/640/61/000/000/013/035 Polythermic sections of ... D205/D302 viet-bloc and 1 non-Soviet-bloc.

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Card 3/3

33893

S/640/61/000/000/014/035 D205/D302

21.2100

AUTHORS:

Ivanov, O. S. and Terekhov, G. I.

TITLE:

Isothermic sections at 560, 500°C and the phase diagram of the ternary system uranium-niobium-molybdenum

SOURCE:

Akademiya nauk SSSR. Institut metallurgii. Stroyenie splavov nekotorykh sistem s uranom i toriyem. Moscow,

Gosatomizdat, 1961, 214-227

TEXT: The nature, structure, and phases of the U-Nb-Mo system in the range 500 - 550°C are of interest because this is the average temperature range of nuclear reactors. The methods and materials temperature described earlier (Ref. 2: This publication, 199-employed were described earlier (Ref. 2 a quarternary eutectoidal 214). It was assumed that at 560 - 570°C a quarternary eutectoidal equilibrium takes place. Alloys with constant U content of 80, 70; 60% and of a part of the Nb: Mo & 1:15 section were investigated in the 500°C isothermic section, while at 560°C the alloys at constant U content of 90 and 40% were also investigated. The isothermic sections are represented graphically as are also the changes

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Isothermic sections at ...

S/640/61/000/000/014/035 D205/D302

of hardness and lattice parameter at the corresponding temperatures. Finally, the projection of the diagram on the concentration triangle and the graphical scheme of non-variant and univariant equilibria in the U-Nb-Mo system from 1500°C down to 565° are given. There are 11 figures and 2 Soviet-bloc references.

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Card 2/2

33894

S/640/61/000/000/015/035 D205/D302

21.2100

AUTHORS:

Ivanov, O. S. and Terekhov, G. I.

TITLE:

Isothermic sections for 1200 - 575°C and phase dia-

grams of the system uranium-niobium-molybdenum

SOURCE:

Akademiya nauk SSSR. Institut metallurgii. Stroyenie splavov nekotorykh sistem s uranom i toriyem. Moscow,

Gosatomizdat, 1961, 228-248

TEXT: The data of the polythermic sections previously described by the authors (Ref. 1: This publication, 199-213) are plotted on isothermic sections for 1200°, 1000°, 800° and 700°C. In addition, sections at 600° and 675°C were investigated by the study of alloys having the ratio Nb:Mo = 1:15. All these sections are represented graphically and described. Changes of hardness, lattice parameter and phase transformations are discussed. Conclusions: The equilibrium (A+) -Nb - Mo) recedes into the ternary system from the peritectoidal reaction which takes place at 642°C and spreads out in the system shifting towards the U-Mo side. The -solid solution

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Isothermic sections for ...

33894 S/640/61/000/000/015/035 D205/D302

composition is shifted simultaneously towards the molybdenum corner. With the decrease of temperature in the 600 - 575°C range, a further decrease of the spread of the 7-phase homogeneous region takes place. There are 13 figures and 1 Soviet-bloc reference.

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Card 2/2

33895 3/640/61/000/000/016/035

21.2100 AUTHORS:

Ivanov, O. S. and Terekhov, G. I.

TITLE:

Transformations of the Y-solid solution during quenching and annealing in the systems uranium-niobium and

D205/D302

uranium-niobium-molybdenum

SOURCE:

Akademiya nauk SSSR. Institut metallurgii. Stroyeniye splavov nekotorykh sistem s uranom i toriyem. Moscow, Gosatomizdat, 1961, 249-264

TEXT: The systems U-Nb and U-Nb-Mo which have wide regions of 6-solid solutions, present possibilities of martensitic transformations and allow a wide choice of thermal treatments of alloys to achieve their most useful characteristics. The aim of the present work was to follow the decomposition of the quenched state by measuring the hardness after multiple annealings at different temperatures. Stability of the alloys, resistance to softening and coagulation of the dispersed structures were also studied. The changes of hardness of the ternary system alloys of sections

Card 1/3

33895 S/640/61/000/000/016/035 D205/D302

Transformations of the ...

Nb:Mo = 3:1, 1:1, 1:3, quenched from 1000°C are presented graphically. The same is done for these alloys after annealing for 3 - 100 hours in the 400 - 550°C range. A similar course of investigation was followed for the binary system U-Nb, special attention being given to alloys of 90, 80, 70, 60 and 40 at.-% of U. The annealing at 400 - 550°C of alloys quenched from the gregion of the binary U-Nb system having up to 30 at.-% Nb causes the decomposition of the d- and gredid solutions with a marked change in hardness. From 35% Nb the hard gredid solution was found to be stable after 125 hours at 400 - 550°C. Alloys of the ternary system 1c-cated at the mentioned sections show, after the annealing treatment, that simultaneous alloying by Nb and Mo gives no improvement in alloying by each of the elements separately. This holds for the preservation of hardness after annealing and for the stability of the gresolutions as well. Study of the structure of the annealed alloys revealed that the decomposition of the gresolution in the ternary system is slower than in the corresponding binary U-Nb and U-Mo systems, at equal contents of alloying components. The greatly at the Nb:Mo ratio of ~27:73. Annealing for 1100 hours Card 2/3

Transformations of the ...

338**95** S/640/61/000/000/016/035 D205/D302

brings about the complete decomposition of the 7-solid solution. Judging by the hardness, the most stable in all respects are the alloys having 80-70% U. The slightly alloyed (up to 2 - 3%) U-Nb alloys are of practical interest as they are capable of preserving for prolonged periods, at 400 - 500°C, the finely dispersed quasi-sisotropic state. There are 10 figures and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: R. J. Van Thyne and D. J. Mc-Pherson, Trans. Amer. Soc. Metals, 49, 576-597 (1957).

1

Card 3/3

د بر مرزم -- 71765: IV All-Union Conference on Physics-onesical Analysis PERIODICAL: Atomnaya energiya, v. 10, no. 4, 1961, 406-407 TRXT: The IV Vecominarye soverhehaniye no finito-khimicheskomu analizu (IV All-Vaion Conference on Physico-chemical Analysis), convened by the function observed in corporate and the N. S. Karnakova AN SUSR (Institute of General and Inorganic Chemistry inent N. S. Kurnakov, AS USBR) and the Institut metallurgii im. A. A. Baykova AN SSBR (Institute of Metallurgy imeni A. A. Baykov, AS SSBR), was held from Decomber 6 to 10, 1960 on the occasion of the 100th anniversary of the birthday of N. S. Kurnakov. Part of the 142 reports made at the Conference dealt with problems of the atomic industry, including reports on the physico-chemical analysis of thorium, arenium, plutonium, and their alloys, as well as of zirconium and beryllium (0. S. Ivanov); "radiation thenomena and new problems of physico-chemical analysis" (V. I. Caltsyn); structure and constitution diagrams of the ternary systems therion - zirconium - uranium (G. K. Alekseyenko and T. A. Badayeva), uranium - molybdenum - zirconium (G. N. Bagroy), uranium - zirconium - niobium (G. I. Genonoy), uranium niobium - molybdenum (G. I Parchay); and physico-chemical analysis of metallic system with rure metals (Ye. M. Savitskiy). V. F. Terekhova reported experimental and theoretical data on rure-earth alloys and presented new constitution diagrams of allegs of yttrium, acciymium, and gadolinium with magnesium, of yttrium and neodymium with aluminum, and of gadolinium with iron and nickel; furthermore, she described the properties of the latter. M. A. Tylkina held a report on tests of alloys of rhenium, tantalum, and tungeten, and also on reactions between those alloys and elements of the 4th, 5th, 6th, 7th, and 0th group.

Str	ucture and Properties (Cont.) SOV/63	84
5.	Terekhov, G. I., R. Kh. Tagirova, and O. S. Ivanov. Effect of Alloying Elements on the Temperatures of Phase Transformation in Rapidly Cooled Y- and $\beta$ -Solid Solutions of Uranium	37 <sup>-</sup>
6.	Semenchenkov, A. T., and O. S. Ivanov. Effect of Repeated Quenching on Cracking of Uranium Alloys	47
<b>7.</b>	Semenchenkov, A. T., and O. S. Ivanov. Kinetics of Transformation of \( \beta\)-Phase Retained by Rapid [Water] Quenching of Uranium Alloys With Aluminum, Silicon, Iron, Nickel, Molybdenum, and Fissium	61
8.	Semenchenkov, A. T., and O. S. Ivanov. Study of the State of Alloying Additions in Quenched Uranium Alloys Tempered at Various Temperatures	70
9.	Ivanov, O. S., G. N. Bargrov, and A. T. Semenchenkov. Study of the Phase Composition and Aging of Binary Uranium Alloys With up to 3-5 at% Zirconium or Molybdenum	77
/ ^	VANOV, 0.5. de 3/10 Stroyeniye i svoystva splavov urana, toriya i tsirkoniya, sbornik structure and Properties of Uranium, Thorium, and Zirconium Alloys; Collect Articles) Moscow, Gosatomizdat, 1963. 378 p. 2000 copies printed.	tatey ion of

	ig and Properties (Jonti)	:5
	The yever T. A., and T. I. Russetbova. Phase Diagrams - Uranium-Chromium System	
	The imov, L. I., L. A. Rubtsova, and O. S. Ivanov. The obtracture of Transum-Rich Alloys of the Uranium-Titansum- Ticking System at 1000°, 650°, and 600°C	
	Talekhov, G. I., and R. Kh. Tagirova. Polythermal Sections of the Transum-Miobium-Molybdenum Ternary Phase Diagram ( 10 = 1/7 (atg) and at 80 (atg) Uranium	يد الم
-	Total Lyev, Yu. S., and O. S. Ivanov. Decomposition of Filld Solution in Uranium-Niobium and Uranium-Zirconium blum Alloys	1.0;
<u>.</u>	Worgallyev, Yu. S. Change in Y-Phase Region in the Phase Region of the Uranium-Zirconium-Niobium-Molybdenum Systems Comperatures Below Eco.	12
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and Properties of Uranita, Thorium, and Zimenial lection of Articles) Mossow, Goratomizant, 1933.

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20 L. M. Kh. Tallova, and O. S. Ivanov. Common Comm

- 1. TEREKHOV, G. N.
- 2. USSR (600)
- 3. Hemorrhagic Fever Uzbekistan
- 4. Pathological anatomy of hemorrhagic fever in Uzbekistan. Vop. kraev. pat. No. 2, 1952.

9. Wonthly List of Bussian Acessions, Library of Congress, February, 1953. Unclassified.

TEREXHOV, G.M., professor; KRUT'KO, N.P., kandidat meditsinskikh nauk

Work of the Tashkent Province Society of Pathosnatomists during 1954 to 1955. Arkh.pat. 18 no.8:127-129 156. (MLPA 10:2)

1. Predsedatel' Tashkentskogo oblastnogo obshchestva patologoanatomov (for Terekhov). 2. Sekretar' Tashkentskogo oblastnogo obshchestva patologoanatomov (for Krut'ko)

(AHATONY, PATHOLOGICAL)

TEREKHOV, G.N., prof.; KRUT'KO, N.P., kand.med.nauk

Work of the Tashkent Province Society of Pathoanatomists in 1957.

Arkh.pat. 21 no.2:91-92 159. (MIRA 12:12)

1. Predsedatel Tashkentskogo oblastnogo obshchestva patologoanatomov (for Terekhov). 2. Uchenyv sekretar Tashkentskogo oblastnogo obshchestva patologoanatomov (for Krut'ko).

(TASHKENT PROVINCI -- PATHOANATOMICAL SOCIETIES)

TEREKHOV, G.N.; KRUT KO, F.P.

Annual report of the Tashkent Province Pathoanatomical Society for 1959. Med. zhur. Uzb. no.4:73 Ap '60. (MIRA 15:3) (TASHKENT PROVINCE—MEDICAL SOCIETIES)

ISAKOV, A.A. (Kemerovskaya oblast'); ZHURGARAYEV, Amangel'dy (Dzhambul'skaya obl., KazSSR); VLADIMIROV, A. (Asbest); FRIMAN, L.I.
(Yaroslavl'); KILIMNIK, Ya.Ye. (Vinnitsa); TEREEHOV, I.A.
(Skopin); AKDAULETOV, N.A. (pos.Mertuk. MazSSR); ZAMHARRIN,
V.Ye. (pos.Rudtsev, Tul'skaya oblast'); SHESTOPAL, G.A.
(Moskva); KOTIY, O.A. (Yaroslavl'); GAUKHMAN, V.A. (Moskva);
LOFSHIS, A.M. (Yaroslavl'); SERGUSHOV, S.A. (Yaroslavl');
GOTMAN, E.G. (Pechorn); VETROV, K.V. (Putintsevo, VostochnoKazakhstanskoy obl.); MIKHELEVICH, Sh.Kh. (Daugavpils);
SKOPETS, Z.A. (Yaroslavl'); RYHRKOV, L.M. (Yaroslavl');
CHEGODAYEV, A.I. (Gavrilov-Yam)

Problems. Mat.v shkole no.6:85-92 N-D '62. (MIRA 16:1)
(Mathematics--Problems, exercises, etc.)

YUPKO, L.D.; TRUBETSKOV, K.M.; GURSKIY, G.L.; TEREKHOV, I.A.; GUSEV, V.F.; VOYTOV, A.O.

Accelerating open-hearth furnace smelting with an increased use of oxygen. Stal: 23 no.1:16-39 da 153. (MIRA 16:2)

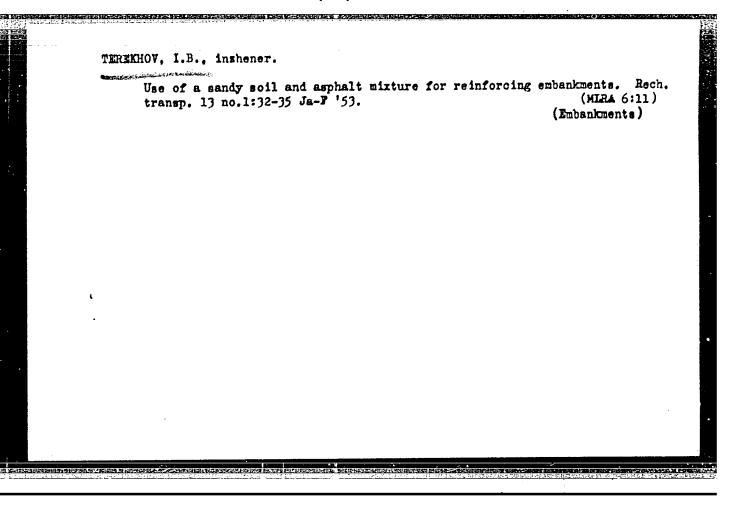
1. Zavod "Zaporozhstal", TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii i TSentroenergochermet.

(Open-hearth process) (Oxygen-Industrial applications)

TEREKHOV. I. B.

TEREKHOV, I. B. "The organization of rectification work," In the symposium: Materialy tekhn. soveshchaniy po putevym rabotam (M-vo rech. flota SSSR), Moscow, 1949, p. 69-71

SO: U-5240, 17Dec53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).



Using the method of refilling railroads in the construction of demonstration slips. Rech. transp. 17 no.12:36-38 D '58.

(Docks) (Dredging)

CHEKRENEV, A.I., doktor tekhn. nauk, prof.; ILINSKIY, V.A., dots.
[deceased]; GRISHANIN, K.V., kand. tekhn. nauk, dots.;
SELEZNEV, V.M., kand. tekhn.nauk; GILYAROV, N.P., dots., kand.
tekhn. nauk; KOSTENKO, N.M., inzh.; Prinimali uchastiye:
GRIGOR'YEV, S.N., inzh.; TEREKHOV, I.B., inzh.; WHIZHOV, B.M.,
inzh., red.; VOLCHOK, K.M., tekhn. red.

[Practical manual on channel improvement operations in inland waterways]Prakticheskoe posobie po proizvodstvu vypravitel'nykh rabot na vnutrennikh vodnykh putiakh. Leningrad, Izd-vo "Rechnoi transport," 1961. 275 p. (MIRA 16:2)

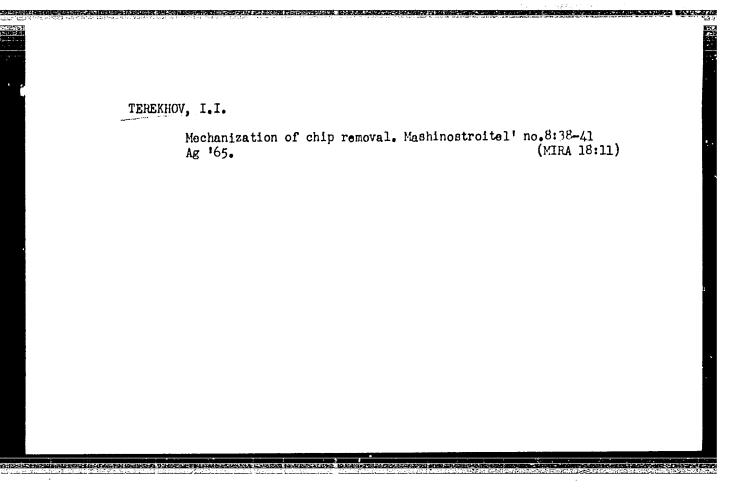
1. Russia (1917- R.S.F.S.R.)Glavnoye upravleniye vodnykh putey i gidrotekhnicheskikh sooruzheniy.

(Rivers--Regulation)

TETERIN, P.K.; LUK'YANOV, V.P.; KAREVA, Ye.N.; Prinimali uchastiye:
ERUN'KO, S.T.; TEREKHOV, I.F.

澧.,

Improved procedure for the manufacture of 1Kh2lN5T steel rings.
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(Steel forgings) (Forging)



Degaussing and compass deviations. Moskva, Morskoi transport, 1945. 101 p. (51-16910)

VK577.Th

1. Campass.

TEREKHOV, I.N., kand.tekhn.nauk, dotsent, kapitan 1 ranga; SMIRNOVSKIY,
A.F., inzh.-kapitan, red.; MERKIN, D.B., kand.fiz.-metem.nauk,
starshiy nauchnyy sotrudnik; red.; SHMAKOV, N.A., kapitanleytenant, red.; BERDHIKOVA, Ye.B., tekhn.red.

[Brief course in radio deviation] Kratkii kurs radiodeviatsii.

Moskva, Voen.izd-vo M-va vooruzhennykh sil SSSR, 1947. 85 p.

(MIRA 14:1)

1. NIGShi voyenno-morskikh sil (for Terekhov).
(Radio in navigation)

CHERILENKO, A.R.; SIMFOROV, G.Ye.; SHKUTA, E.I.; TEREKHOV, I.P.;

POLYANSKIY, F.S.; PISANKO, K.S.; SHENDRIK, V.K.; AL'TSHULKR,

M.A.; RIVKIN, I.D.; ENGKL', Ye.R.; CHETYRKIN, M.I., red.izd-ve;

PYL'NKN'KIY, A.A., red.izd-ve; OSVAL'D, M.Ye., red.izd-ve;

PROZOROVSKAYA, V.L., tekhn.red.

[Sharp increase in the labor productivity of Krivoy Rog Basin miners; practices in the "Bol'shevik" and "Gigant" mines]
Krutoi pod mem proizvoditel nosti truda gorniakov Krivbassa;
iz opyta raboty shakht "Bol'shevik" i "Gigant." Moskva, 1960.
173 p. (MIRA 13:11)
(Krivoy Rog Fasin--Iron mines and mining--Labor productivity)

TEREKHOV, I. P., gornyy inzh.; SHENDRIK, V. K., gornyy inzh.; POLYANSKIY, F. S., gornyy inzh.

Ore-mining techniques and equipment and the organization of labor in Krivoy Rog Basin mines should be changed. Gor. zhur. no.10:17-21 0 162. (MIRA 15:10)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.

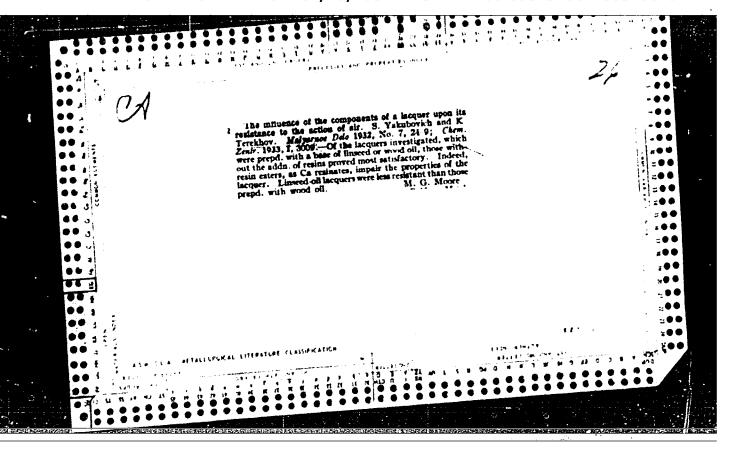
(Krivoy Rog Basin-Iron mines and mining)

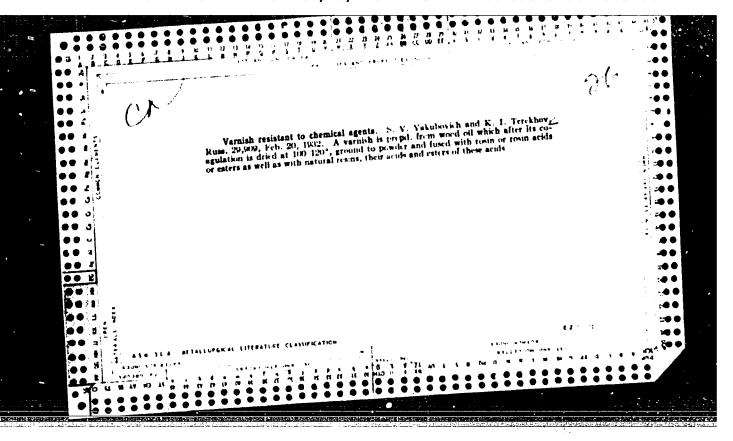
TEREKHOV, I.V.; MIROCHNICHENKO, A.G.; NEMCHENKO, G.V.; DIREVICH, V.G.

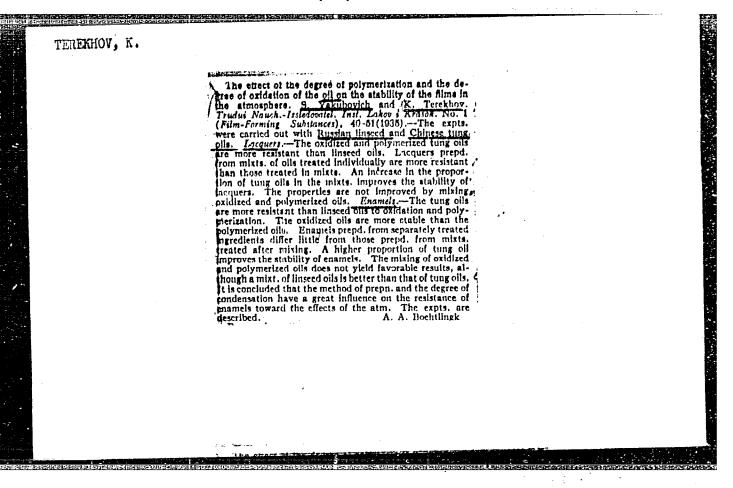
Frogs of tractor-driven plows from high-strength cast iron.

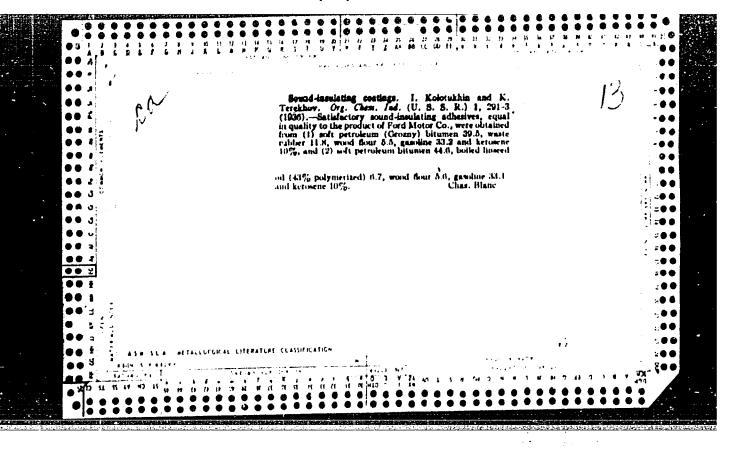
Trakt. i sel'khozmash. no.4:45-46 Ap '65. (MIRA 18:5)

1. TSentral'noye konstruktorsko-tekhnologicheskoye byuro Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR, Cdessa.









PHRANCO, K. I., Engr. — Gad. Tech. Col.

Discreptible: "Displace wheeled in I and Matellar modified in the displace of the Color of Col. Cymiling." Gentral Col is a last of lock of Society of Theology and Matellar Telling - Winter Col. (2) 2 Winter Col. (3) 2 Winter Col. (4) 47.

Soc. Vectornova Nucley, Apr., 1947 (Project #1736)

VORONOV, S.M., professor, doktor tekhnicheskikh nauk; TEREKHOV, K.I., kandidat tekhnicheskikh nauk, rukovoditel! Zaochnykh kursov, otvetstvennyy redaktor: SIDORIN, I.I., professor, rukovoditel! Zaochnykh kursov po uchebnoy chasti, nauchnyy redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Workable aluminum alloys] Deformiruemye aliuminievye splavy.

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951.

74 p. (Zaochnye kursy usovershenstvovaniia inzhenerov metallovedov-termistov, 34)

(MIRA 9:10)

(Aluminum alloys)

PRINCE TO BY THE THE PROPERTY OF THE PROPETTY OF THE PROPERTY OF THE PROPERTY OF THE PROPETTY OF THE PROPETTY OF THE PROPETTY	; I.	<u>- K E</u>	4×Ho	v,	Selve a	T	<u>.</u>							<b>-</b>	······· <u></u>								1,04	
	ş	성실	ę.		1944	,	3 .		₩ 5	(		2	×		t t	<u>g</u>	8.	5	3	ŝ	X 3	5	2	
	FRANK I BOOK : Institut metallurgii.	Jesledowaira po marcyrochym splawa, t. 5 (Investigations of Hest-Resists Alloys, Fel 5) Moscow, Ind-wo As 5538, 1959. 423 p. Errate ellp insert 2,000 copies printed.	Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Khi'shin; Editorial Bastorial Derrors, T.F. Bastorial, Academician, O.Y. Kurtymov, Academician, H.Y. Agray Gerrerponding Namber, USIN Academy of Sciences (Sery, Ed.) [I.A. Oting, I.A. Perlor, and I.F. Zudin, Centitate of Technical Sciences.	FURFORE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of intense to students of advanced course is metallurgy.	COTEMAR This book, conditing of a number of pepers, deals with the proper ties of best-resisting setals and alloys. Each of the papers is deroted if the stack of the fastors which effect the properties and behavior of setal the effects of which sizes such as C. Mc. said who the best-resisting	of certain metals as related to the thermal conditions are the object of metals related to the thermal conditions are the object of metals related teached to the problem of bydrogen embility of the object of metals object of the object of t	electrophoresis are expedient. One paper describes the apparatus and settles used for growing amonographs of western borders asked as perfectly expedient of entire and settles are critically examined and enhancied. Results are given of straight as the baharder of stone is metal. These of straight bonds describes and compressor blades describes and compressor blades	Larkyre, E.A., B.M. Kirgyan, and E.S. Corcanova. El 756 Australia Steel	Edizibile, F.F., Z.A. Brevalore, J.Re. Forbalezko, J.A. Fernich, and B.R., Landining, T. Trop and H. 6974 lest-lesistant Christian-Holes-Pitanius Steel, Garberg, J.R., On the Rechasin of Brees Salvander in Laurentete Resea	SMITTER, E.M., A.A. Platenore, E.M. Redstekyre, and L.M., Glistion. The Effect of Therest Stresses on Sport-time, Long-Time, and Wheston. Strength of Alloys	forther Life. Acceleration of Aging Cycles of El tel Sent-Besistant Austead. Tit bytes	Prediction Ind., A.L. Alean, and A.M. Leimon. The effect of Alloying on the longitudiand Mobiles of Resoluting of Effortion	Firstle, Teal. Experimental Study of the Mechanism of Deformation of States. Name Alloys	Manuth, O.d., and I.P., Bully. The Affect of Complex Alliging Vien Vanadim, Chronius, and Tungesen on the Libetics of Hardness Canges in the Annealing of Coldedorbal Perrite	"Apring Mal. On the Froblem of Studying the Kinetize of Structural Changes and Frogeries in One Species Within a Wide Temperature hange Mindler, W.P. On the Magnilla Phinting Male Properties of International Phinting Structure and Properties of Internation Poundaries.	loria, hd., P.A. Pivik, V.S. Kultygia, and D.E. (yrz.jurgy, Structure and Respectives of sited Alloy miles the long-flue kielius of M.D. Smerneure	Chemythy-6.7., Lill Malmanars, and M.I. Mil. The Effect of Sydroges on Green Strength of Certain Steels				Termakov, V.S. Artificial Aging of the E185 Alloy mades Cyclic Londs Biokiv, Bill, and E.A. Parlov. Study of Fine Structures of Alumina-Magnesius and Copysidates Solid Solutions	š		
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TEREKHOV, K.I.; LASHKO, N.F.; SOROKINA, K.P.

Phase constitution, structural transformations and heat resistance in chromium-nickel-manganese steel. Issl.po zharopr.splav.

8:155-161 '62.

(Steel, Heat-resistant-Metallography)

(Phase rule and equilibrium)

# s/129/60/000/009/003/009 E193/E483

Zhirnov, D.F., Terekhov, K.I. and Taubina, M.G., Candidates of Technical Sciences AUTHORS :

The Effect of Structure on the High Temperature

Properties of Alloys TITLE

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1960, No.9, pp.12-16

Having determined experimentally the relationship between the degree of preliminary deformation and the grain size of/ recrystallized material, the authors studied the effect of grain size on the mechanical properties of steel EI481 and alloy EI437B. The mechanical tests were carried out both on laboratory test pieces with a predetermined grain size and on specimens cut from finely- and coarsely-crystalline portions of industrial forgings. The short-time strength of the steel E1481 at room and elevated temperatures was not affected by the variation of the grain size. However, the time-to-rupture of specimens with the grains varying in size between 0.5 and 5 mm, and determined at 550, 600 and 650°C, was considerably lower than that of specimens with uniform, finelycrystalline structure. U.T.S., elongation and reduction of area Card 1/2

S/129/60/00C/009/003/009 E193/E483

The Effect of Structure on the High Temperature Properties of Alloys

of alloys EI437B at 20 and 700°C, decreased with increasing grain size but the creep properties of this alloy were not affected by this factor, probably because the maximum grain size obtained (2 mm) was not sufficiently large to produce measurable effects.

A.P.Ozerova, N.D.Shakhbazova, M.V.Malyutina and L.B.Aleksandrova participated in the experiments. There are 5 figures and 3 tables.

Card 2/2

ACC NRAT6035511

SOURCE CODE: UR/2531/66/000/185/0044/0054

Son'kin, L. R.; Razbegayeva, Ye, A.; Terekhova, K. M. AUTHOR:

ORG: none

Meteorological conditions causing atmospheric pullution over TITLE: cities

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 185, 1966. Voprosy atmosfernoy diffuzii i zagryazneniya vozdukha (Pro-

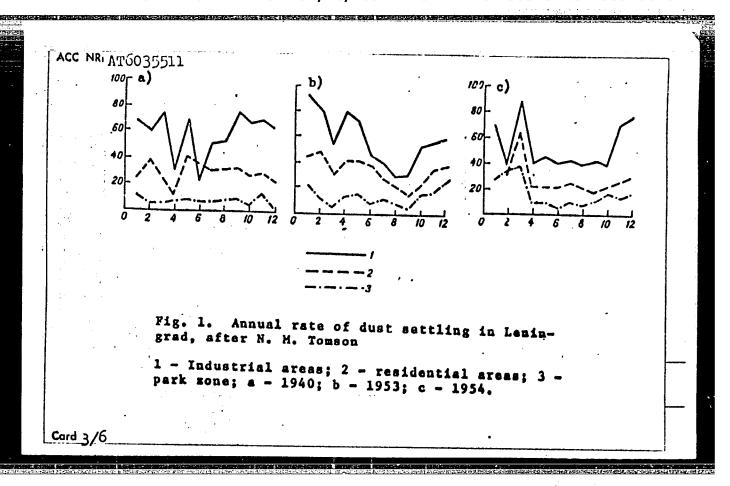
sulfur dioxide, sulfax compound, atmospheric precipitation

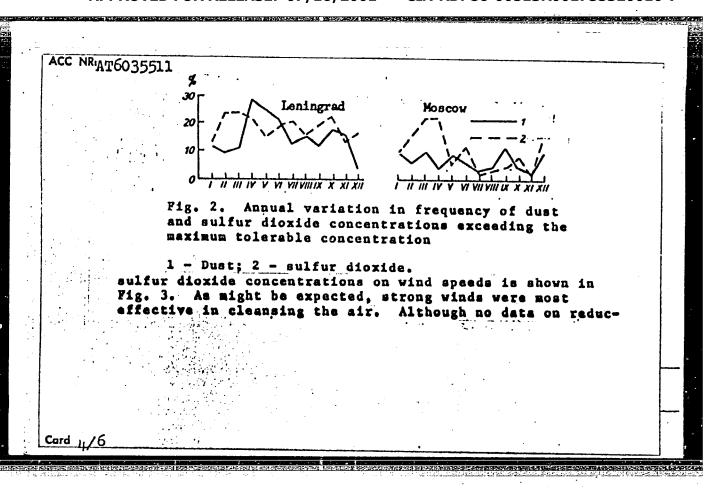
blems of atmospheric diffusion and air pollution), 44-54 TOPIC TAGS: micrometeorology, atmospheric Ppollution, meten smog, dust,

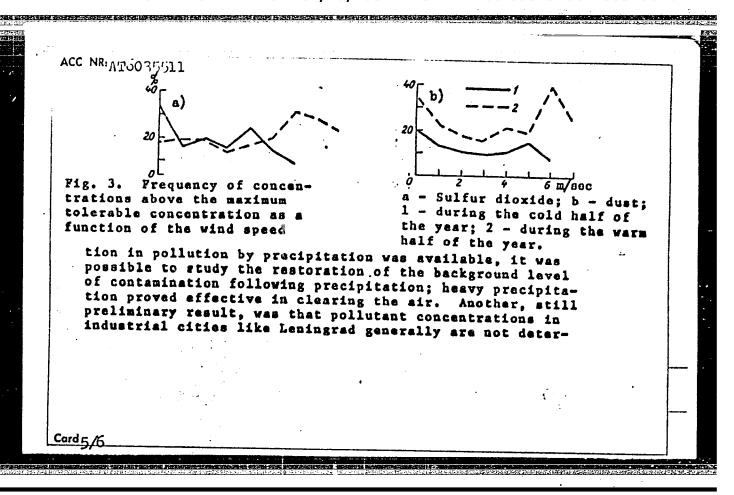
ABSTRACT: This article begins with a five-page survey of possible correlations between atmospheric pollution and meteorological factors. The authors relied chiefly on 1961-1963 data on dust and sulfur dioxide pollution supplied by the Leningrad Hunicipal Sanitation-Epidemiological Service. Samples were obtained at 14 points in Leningrad, usually twice a week, with some gaps of a day or more. Summer observations were more complete than winter observations. Data from Moscow, Donetsk, Makeyevka, Novosibirsk, Kemerovo,

and Prokop'yevsk were utilized to some extent.

ACC NR: AT6037511 The first stage of the project was to get a general picture of the atmospheric pollution in some cities, especially in Leningrad. Cases in which dust concentrations were above the maximum tolerance limit amounted to 17% of the total number of observations in Leningrad in 1961-1963, and excessive sulfur dioxide pollution provided 19%. The corresponding figures for Moscow (about 5000 samples) in 1962-1964 were 72 and 10%. The next step was to construct graphs showing the variations of atmospheric contamination in cities (Figs. 1 and 2). There was a tendency for air pollution maxima to appear over the Donbass and the Kuzbass in the spring time. The data failed to indicate the existence of winter maxima caused by heating of buildings, nor was there a definite analysis of data on correlation between concentrations of dust, sulfur dioxide, and wind directions. The dependence of dust and Card 2/6







ACC NR: AT6035511

Table 1. Frequency (%) of dust concentrations exceeding the maximum tolerable concentration under different synoptic conditions

	Synoptic situation								
Time of year	Anti- cyclone	Cyclone	Intermediate field						
Cold	30	5	12						
Warm	22	9	19						

mined directly by the sources of contamination, but by the presence of some background concentration and are chiefly associated with anticyclones, particularly with slow-moving, strong anticyclones. Frequencies of dust concentrations above the maximum tolerable level under various synoptic conditions are given in Table 1. Orig. art. has: 4 figures and 3 tables.

[WA-50; CBE No. 14]

[ER]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 011/ OTH REF: 014

Card 6/6

TEREKHOV K.S

AUTHOR: Terekhov, K.S., Engineer.

122-3-26/30

TITLE:

An Efficient Selection of Special Equipment in Plants for Experimental and Small Batch Manufacture (Rateional'ny) vybor spetsosnashcheniya na zavodakh opytnogo i melkoseriy-

nogo proizvodstva)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, No.3, pp. 69 - 73 (USSR).

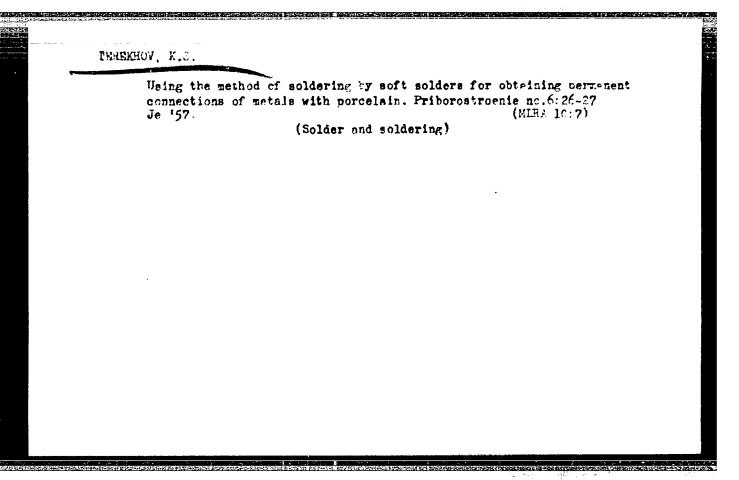
The great savings obtainable by the use of simplified tooling are illustrated. Compared with the standard punching and blanking press-tool with a life of 50 000 components, a ABSTRACT: simplified press tool with a life of up to 5 000 components costs 96 000 Roubles instead of 1 280 000 Roubles. Similar relations are stated for simplified bending and drawing tools. The use of universal built-up press tools assembled from standard elements is shown in one example. The number of press tools for one experimental machine was reduced from 1 000 to 8. The design of a rapidly-interchangeable die and the associated die inserts are illustrated. Several illustrations show the use of machining fixtures assembled from universal units. In one plant more than 10 000 fixtures were assembled from universal elements during two years. A chart shows an assortment of Cardl/2 plastic components machined from blanks pressed into moulds

An Efficient Selection of Special Equipment in Plants for Experimental and Small Batch Manufacture.

with inter-changeable die inserts, also illustrated. There are 6 figures, 3 tables and 6 references, 5 of which are Slavic.

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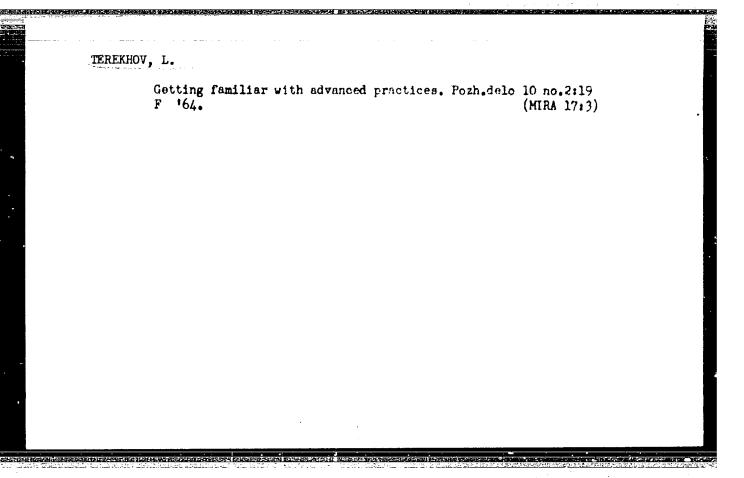
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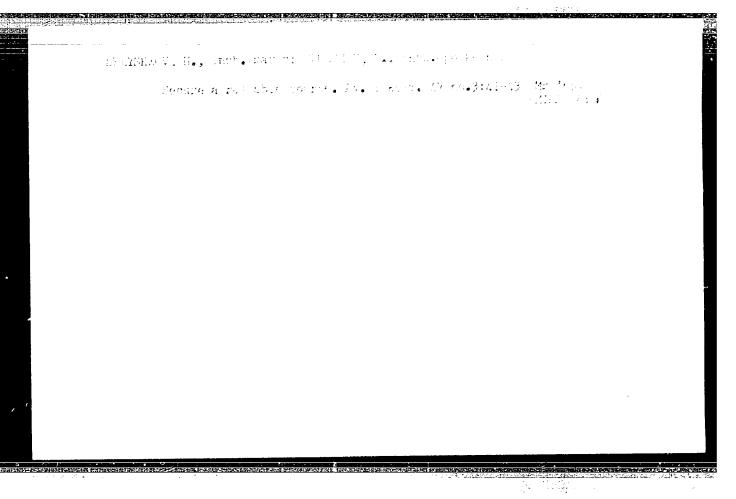
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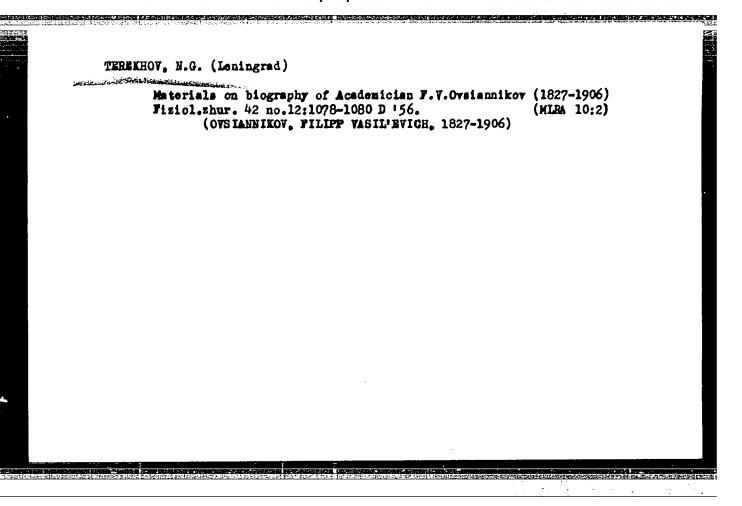
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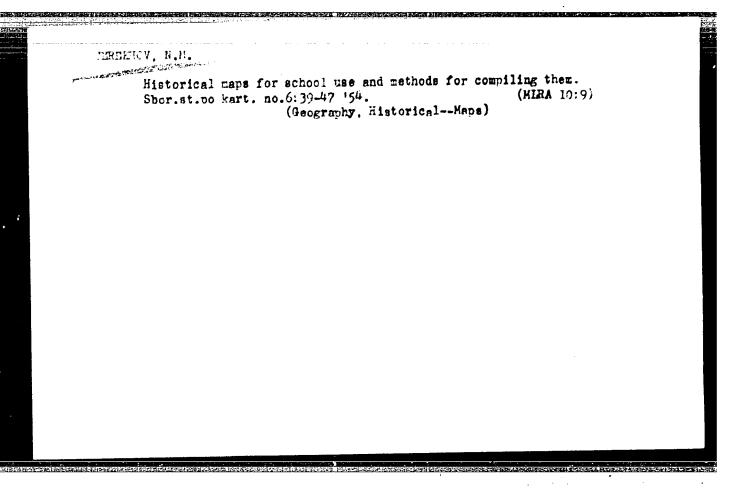
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